

OIL ANALYSIS REPORT

Sample Rating Trend





DIAGNOSIS

Recommendation

Contamination

Fluid Condition

Wear

oil

Resample at the next service interval to monitor.

There is no indication of any contamination in the

alkalinity remaining in the oil. The condition of the

The BN result indicates that there is suitable

oil is suitable for further service.

All component wear rates are normal.

Machine Io 928099

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- GAL)

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SAMPLE INFORMATION method GFL0100946 GFL0100901 GFL0086833 Sample Number **Client Info** 12 Mar 2024 Sample Date Client Info 06 Feb 2024 28 Nov 2023 Machine Age hrs Client Info 0 323049 15546 Oil Age hrs Client Info 600 0 600 Oil Changed Changed **Client Info** Not Changd Changed NORMAL Sample Status NORMAL NORMAL CONTAMINATION Fuel >3.0 WC Method <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS >120 21 15 49 Iron ppm ASTM D5185m ASTM D5185m >20 <1 5 Chromium ppm <1 0 Nickel >5 0 ppm ASTM D5185m 0 Titanium ppm ASTM D5185m >2 0 0 <1 Silver ASTM D5185m >2 0 0 0 ppm Aluminum >20 14 8 9 ppm ASTM D5185m Lead ASTM D5185m >40 <1 0 0 ppm ASTM D5185m >330 Copper ppm <1 <1 7 0 Tin ppm ASTM D5185m >15 <1 <1 Vanadium ppm ASTM D5185m <1 0 <1 Cadmium 0 0 ASTM D5185m 0 ppm ADDITIVES Boron mag ASTM D5185m 0 5 2 5 Barium ASTM D5185m 0 0 0 0 ppm 73 Molybdenum ASTM D5185m 60 63 56 ppm ASTM D5185m 0 Manganese ppm <1 <1 <1 Magnesium ASTM D5185m 1010 1115 938 858 ppm Calcium ppm ASTM D5185m 1070 1373 1113 1075 Phosphorus ASTM D5185m 1150 1076 977 934 ppm Zinc ppm ASTM D5185m 1270 1401 1288 1097 Sulfur ASTM D5185m 2060 3724 2835 2707 ppm CONTAMINANTS 7 5 Silicon ASTM D5185m >25 18 ppm Sodium ASTM D5185m 4 4 ppm 7 Potassium ASTM D5185m >20 1 1 6 ppm **INFRA-RED** 0.7 % 0.6 0.6 Soot % *ASTM D7844 >4 Nitration Abs/cm *ASTM D7624 >20 9.0 8.0 6.9 Sulfation *ASTM D7415 >30 19.7 19.3 19.1 Abs/.1mm

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FLUID DEGRADATION

Oxidation

*ASTM D7414

Abs/.1mm Base Number (BN) mg KOH/g ASTM D2896 9.8

>25

15.6

6.8

14.1

9.0

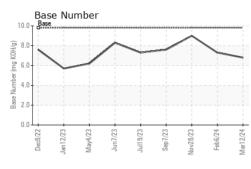
14.8

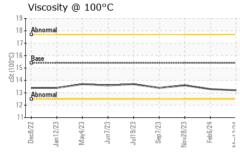
7.3



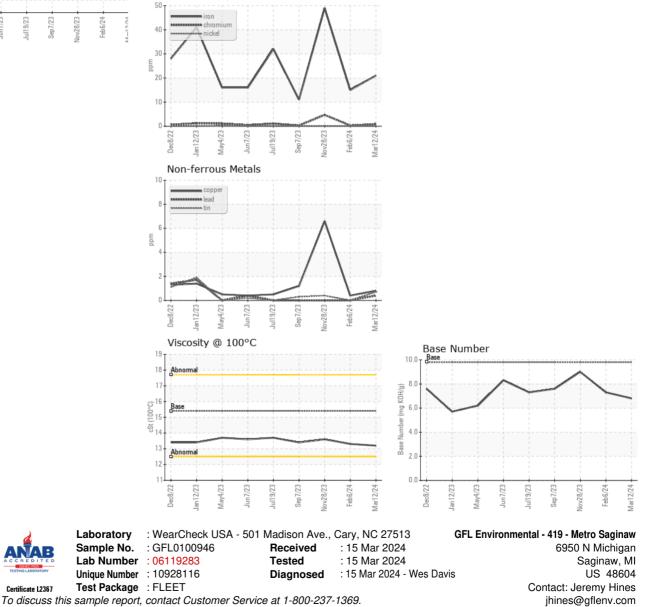
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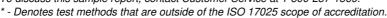
Ferrous Alloys





VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.3	13.6
GRAPHS						





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

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F: